

**CAM-BASED SEARCH ENGINES AND PACKET COPROCESSORS  
HAVING RESULTS STATUS SIGNALING  
FOR COMPLETED CONTEXTS**

Abstract of the Disclosure

5 CAM-based search engines and packet coprocessors include control logic that supports direct reads of information that summarizes the done status of multiple contexts being handled by the search engine device. This done status information may be maintained in dedicated registers that are configured to support high bandwidth utilization from a data port of the search engine device. The control logic may also be configured to generate interrupts or asynchronous signals that notify an issuing command source of context completion.

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